

Claims

1. A fixture having external threading, comprising, 1/ a threaded Part for insertion into a prepared site in the jaw bone, and 2/ a threaded part, to which pressure may be applied by means of an internally threaded element e.g. a nut, when used in conjunction with an appliance supported by teeth or adjacent static fixtures.
2. A one piece implant for osseodistraction or orthodontic anchorage, having a threaded part for insertion into bone, with the characteristics of a dental implant for insertion into bone, at one end, and the characteristics of a machine screw at the other end, which is intended to protrude into the mouth, for the connection to appliances, or prostheses, for the distraction of bone or the orthodontic movement of teeth.
3. A fixture as described in previous claims, having two externally threaded parts, one which is inserted into a prepared site into the jaw bone, the other which protrudes into the oral cavity so that it may be acted upon by an internally threaded components.
4. A fixture as described in previous claims having an externally threaded part which protrudes into the oral cavity, said part having a flattened aspect, such that it may be acted upon either by an internally threaded component, or by cement on female components, or clip on female components, which mate with said flattened aspect to prevent rotation of the component.
5. A fixture as described in the previous claims having a smooth, non threaded, alignment section at its' apex, intended to guide the transport segment of bone as it is distracted and prevent inappropriate movement.
6. A fixture as described in previous claims, which is provided with a polished section, intended to act as a collar to which the gingival cuff will approximate, said collar having a non round cross-section to allow insertion of the fixture with an appropriate shaped socketed tool.
7. A fixture as described in previous claims intended for connection to prostheses, orthodontic appliances, or adjacent teeth or dental implants.

8. A fixture as described in previous claims intended for connection to orthodontic appliances, having within its body an aperture, which may be square or rectangular through which an orthodontic wire may be passed to facilitate connection of said fixture to adjacent teeth or appliances..
9. A fixture as described in previous claims having a slightly tapered body, having deeply biting threads, on that part intended for insertion into the jaw, and a metric machine thread on that part intended to protrude through the gingiva.
10. A fixture intended for Osseo distraction or Orthodontic anchorage, substantially as described in this description and the accompanying figures.
11. A fixture range or system intended for orthodontic anchorage in the jaw, substantially as described in this description and the accompanying figures,
12. A fixture range or system intended for Osseo distraction, or for orthodontic anchorage in the jaw, having available matched components, provided with fittings to facilitate the connection of arch wires, or the cementation of orthodontic components substantially as described in this description and the accompanying figures.
13. A fixture as described in previous claims having a surface treatment intended to encourage rapid osseointegration, e.g. plasma sprayed, etched, blasted, titanium dioxide, hydroxyapatite or other roughening processes, on only the more superficial endosseous part of the fixture which is intended to contact the bony cortex of the intended site, and a smoother, possibly machined surface towards the apical portion of the fixture.
14. A fixture as described in previous claims having a progressively rougher surface, which is relatively smooth toward the apex of the fixture, and which becomes relatively rougher, and more attractive to bone growth towards the coronal aspect of that part of the fixture which is intended to contact the bony cortex of the intended site.
15. A range or system of components intended for Osseo distraction, or for orthodontic movement of teeth, provided with fittings to facilitate the connection of arch wires, or the cementation of orthodontic components, intended to be used in conjunction with a fixture having an externally threaded intra oral part, or a threaded and flattened intra oral part, substantially as described in this description and the accompanying figures,